SITE INSPECTION
C.J. MARTIN
NACOGDOCHES, TEXAS

Prepared for:

Texas Water Commission
State Superfund Unit

D87075
JN 117202

JONES AND NEUSE, INC.
Engineering and Environmental Consultants
Austin-Houston-Belton-Corpus Christi-Temple-Orange

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EXEC. SUM.

SECTION I
EXECUTIVE SUMMARY

I. EXECUTIVE SUMMARY

Jones and Neuse, Inc. (JN) was retained by the Texas Water Commission (TWC) to perform site inspections at potential hazardous waste sites. The site described herein was designated by the TWC pursuant to 31 TAC Sections 335.341-335.346 and TWC Contract No. 14-70020 concerning the hazardous waste facility assessment and remediation program, commonly referred to as the State Superfund.

The C.J. Martin Company (CJM) is an active formulator of agricultural pesticides and animal health products. Historically, the facility has produced approximately 450 bags per month of 80% sevin dust and between 150 to 250 bags of other pesticides (for example 50% methoxychlor, 94% phenthiazine, 10% chlordane and 40% toxaphene).

The plant is located at 606 W. Main Street in Nacogdoches, Texas. The TWC Solid Waste Registration Number is 31531 and the EPA Identification Number is TXD008144388. CJM is active and generates the following wastes: pesticide containers (179980), wastewater from agricultural chemical production (106970), strychnine contaminated material (977190), pesticide contaminated material (981830), and wastewater sludge (948560).

During the site inspection conducted by JN, the site consisted of three warehouse buildings housing mixing areas, packaging rooms, storage and retail sales. The facility operation includes a 7,500 gallon metal underground hazardous waste storage tank and other product tanks. Surface drainage at the site is along a drainage ditch at the northern border of the site and ultimately to Bonita Creek.

Air monitoring was conducted on-site utilizing a photoionizer detector. Elevated levels of 70 ppm were detected in the area around and above the 7,500 gallon waste tank. Background levels (3-5 ppm) were registered elsewhere throughout the site.

Samples taken by the JN inspection team on March 23, 1987 exceeded holding times due to a delay in shipping by the commercial busline used to transport the samples to the laboratory. A resampling site visit was conducted by JN on June 4, 1987. The results of the resampling documented EP Toxic levels of Lindane (9.0 ppm) in the waste liquid. The level of Lindane was above detection in the background soil (0.029 ppm), and increased in the downstream soil samples (0.044 ppm) showing an off-site hazardous substance release.

Documentation of Lindane in off-site soil samples indicates contaminant migration by either airborne or water borne routes or both. Adjacent residences could be impacted by airborne migration. Increasing levels of Lindane in the downstream location indicate some transport and/or concentration. Thus, contamination further downstream would be expected. Groundwater contamination in the site alluvium is possible from potential tank leakage or spillage from handling operations.

II. SITE INSPECTION NARRATIVE

The JN inspection team along with a TWC representative first inspected the site on March 23, 1987. The team was accompanied by Mr. Billy Sims of Lone Star Feed (site contact) throughout the investigation. It is the understanding of JN that Lone Star Feed is affiliated with C.J. Martin. At the facility, equipment rinsate and washwater drains to a sump and is then pumped into a covered wastewater tank. Every 90 days a vacuum truck is used to remove the waste from the tank and it is transported off-site for injection. The concrete tank is six feet below ground and three feet above ground and holds 7,500 gallons.

There are six product tanks on-site, all above ground. Below is a listing of these tanks and their contents:

Tank No.	Capacity	Product Contents	Status
1	12,000 gal	Kerosene	Out of service
2	6,500 gal	Epesol Aromatic Solvent	In use
3	7,500 gal	Epesol Aromatic Solvent	In use
4	3,000 gal	Carbolin Oil	Contains creosote
5	3,000 gal	Carbolin Oil	Out of service
6	3,000 gal	Creosote	In use

In addition to these tanks, the site previously had a 3,000 gallon storage tank which held benzene product. Mr. Sims reported that this tank was taken out of service and removed several years ago.

A visual survey of the site revealed surface water runoff due to the heavy rains earlier on the day of the inspection. The runoff is along the northern most property line and flows west to east and leaves the CJM property at its northeast corner. Here, the surface water empties into a north to south flowing storm sewer located between the eastern most property line and the railroad tracks. This storm sewer then

SECTION II
SITE INSPECTION NARRATIVE

empties into Bonita Branch Creek. The source area for this surface water appears to be runoff from the northern part of the facility as well as the properties to the north and northwest of CJM.

Two soil borings were hand augered at the facility (see Figure 1). The first boring (B-1) is located seven feet east of the 7,500 gallon waste tank. The second boring (B-2) was hand augered at the northeastern corner of CJM. Each of the two borings were advanced to a depth of five feet below grade. A composite soil sample was taken from both B-1 (sample CJM-001) and B-2 (sample CJM-003). In each case, groundwater was encountered and a ground water sample was taken at each location (sample CJM-002 at B-1 and sample CJM-004 at B-2).

A background surface water sample was taken near the northwest corner of the facility (CJM-005). A downgradient surface water sample was taken at a location downstream of the above ground storage tanks (CJM-006). The waste tank was then sampled using Level C precautions (CJM-007).

During the site inspection and sampling, air quality monitoring was conducted throughout the site at each of the borings and at the 7,500 gallon waste tank using a photoionization detector. The only readings elevated above background were around and above the waste tank. Readings above the waste tank on the March 23, 1987 on-site investigation indicated levels of 50 ppm, well above background readings of 5 ppm.

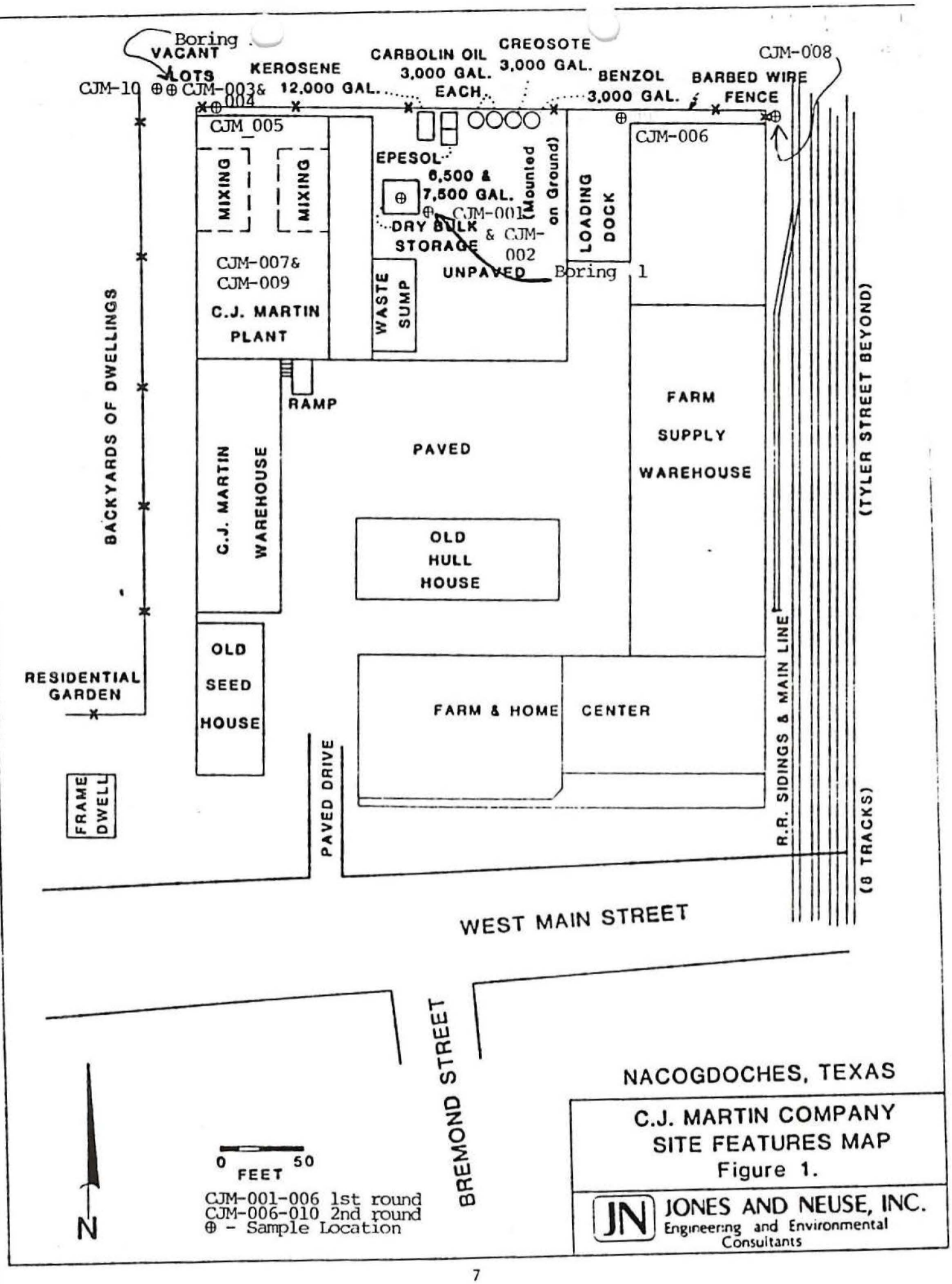
All samples were labelled, placed into airtight bags and preserved with ice until delivery to Southwestern Laboratories accompanied by a completed Chain-of-Custody form. Due to a delay by the transporter, the holding time on the samples was exceeded. Despite the delay, the total pesticide analysis indicated that only Lindane was above detection limits. Results of the first round of samples were as follows:

Sample		Compounds Above Detection (ppb)
On-site Soil	CJM-001	None
On-site Groundwater	CJM-002	None
Background Soil	CJM-003	None
Background Groundwater	CJM-004	None
Upstream Surface Water	CJM-005	Lindane 0.40
Downstream Surface Water	CJM-006	Lindane 5.15
Waste Sample	CJM-007	Lindane 61,100

A site features map was generated for the facility and can be found in Figure 1. Photographs of the site are presented in Figure 2. In order to determine the presence of hazardous waste, samples were collected according to the sampling plan approved by the TWC. Additional information concerning the facility and the JN inspection is contained in Table 1, the TWC Site Inspection Report and Attachment A, the Data Collection Guideline. The location of the site with respect to regional features is shown in Attachment C, the County Map, and Attachment D, the USGS Map.

After it was established that the holding times on the original set of samples had been exceeded, an additional sampling event was scheduled. The JN inspection team arrived on-site June 4, 1987. They were again accompanied by Mr. Billy Sims of Lone Star Feed throughout the visit. Selective samples were taken based on the original analysis. Very little rainfall had occurred during the month of May so that no surface runoff was occurring. Therefore, no surface water samples were collected.

A sample of the 7,500 gallon waste tank (CJM-009) was taken using Level C precautions. An upgradient soil sample (CJM-010) was collected in the area of previous sample CJM-003. A downstream off-site drainage channel soil sample was taken at the northeast corner of the CJM site. The only reading above background (3.0 ppm) was at the waste tank which was 70 ppm. All samples were analyzed for EP


Boring
VACANT
LOTS
CJM-10
CJM-003&
004
KEROSENE
12,000 GAL.
CARBOLIN OIL
3,000 GAL.
EACH
CREOSOTE
3,000 GAL.
BENZOL
3,000 GAL.
CJM-008
BARBED WIRE
FENCE
CJM_005
MIXING
MIXING
CJM-007&
CJM-009
C.J. MARTIN
PLANT
EPESOL
6,500 &
7,500 GAL.
(Mounted on Ground)
DRY BULK
STORAGE
CJM-001
& CJM-
002
UNPAVED
Boring 1
WASTE
SUMP
LOADING
DOCK
CJM-006
RAMP
PAVED
FARM
SUPPLY
WAREHOUSE
C.J. MARTIN
WAREHOUSE
OLD
HULL
HOUSE
OLD
SEED
HOUSE
RESIDENTIAL
GARDEN
FRAME
DWELL
PAVED DRIVE
FARM & HOME
CENTER
R.R. SIDINGS & MAIN LINE
(8 TRACKS)
(TYLER STREET BEYOND)
BACKYARDS OF DWELLINGS
WEST MAIN STREET
BREMOND STREET
N
0
50
FEET
CJM-001-006 1st round
CJM-006-010 2nd round
⊕ - Sample Location
NACOGDOCHES, TEXAS
C.J. MARTIN COMPANY
SITE FEATURES MAP
Figure 1.
JN
JONES AND NEUSE, INC.
Engineering and Environmental
Consultants

Toxic pesticides. The results of the March 23, 1987 sampling can be found in Attachment B-1. The results of the June 4, 1987 sampling are in Attachment B-2.

TABLE 1

TWC SITE INSPECTION FORM

State Superfund Inspection Report	District	Inspection Date
	5	23 March 1987

CERLIST	Registration #	District Contact	Abandoned?
	31531	Matt Tolkein	Active

EPA Id #

I. SITE IDENTIFICATION

A. Site Name	B. Street (or other identifier)		
C. J. Martin	606 W. Main Street		
C. City	**D. State**	**E. Zip Code**	**F. County**
Nacogdoches	Texas	75963	Nacogdoches

G. Site Contact Information

1. Name		2. Telephone Number	
Billy E. Simms		409-564-3711	
3. Street	**4. City**	**5. State**	**6. Zip Code**
P.O. Box 1089	Nacogdoches	Texas	75963

H. Land Owner Information

1. Name		2. Telephone Number	
Texas Farm Products		409-564-3711	
3. Street	**4. City**	**5. State**	**6. Zip Code**
315 Fredonia	Nacogdoches	Texas	75963

I. Other

1. Name	2. Relationship	3. Title	
4. Street	**5. City**	**6. State**	**7. Zip Code**

II. INSPECTION INFORMATION

A. Preparer Information

1. Name		2. Title	
Curt Black		Hydrogeologist	
3. Street	**4. City**	**5. State**	**6. Zip Code**
2720 Bee Cave Road	Austin	Texas	78746
7. Organization		**8. Telephone No.(area code)**	
Jones and Neuse		512-327-9840	

B. Inspection Participants

1. Name	2. Organization	3. Telephone No.
Curt Black	Jones and Neuse, Inc.	512-327-9840
Robert Sherrill	Jones and Neuse, Inc.	512-327-9840
Caroline Reynolds	Jones and Neuse, Inc.	512-327-9840

C. Site Representatives Interviewed (corp. officials, wkrs., residents)

1. Name	2. Organization	3. Telephone No.
Billy Simms	Texas Farm Products	409-564-3711
Elzie Smith	C. J. Martin	409-564-1413

0	Depth (in feet) to uppermost aquifer - measured vertically from the lowest point of the hazardous substances to the highest seasonal level of the saturated zone of the aquifer of concern. Bottom of waste tank is 6' below grade while ground water in boring B-1 is 4' below grade.
6'	Depth (in feet) from the ground surface to the lowest point of waste disposal/storage.
D	Physical State - the state of the hazardous substance at the time of disposal. a. Solid, consolidated or stabilized b. Solid, unconsolidated or unstabilized c. Powder or fine material d. Liquid sludge or gas e. Unknown - comments _____
B-2	Contaminant - See Ground Water Chart
7500 gal	Hazardous Waste Quantity - Quantity of hazardous substances deposited at a site except when completely contained. Do not include amounts of contaminated soil or water; in such cases the amount of contaminating substance may be estimated. Maximum volume 7500 gal
	Basis of estimating and/or computing waste quantity: Volume of waste in sump cycles between 0 and 7500 gal. Eqpt. is washed down only when necessary and wash water flows to sump. Gibralter periodically removes 3500 to 4000 gal. for transport and disposal by injection.
	Location of nearest well drawing from the uppermost aquifer or building not served by a public water supply: Location shown on map; Well 37-27-306 located 2100' south
3%	Average Slope of facility in percent.

CONTAINMENT VALUE FOR GROUND WATER ROUTE

A. Surface Impoundment	C. Piles or Surface Soils *
1. Sound run-on diversion structure, essentially non-permeable liner (natural or artificial) compatible with the waste, and adequate leachate collection system.	1. Piles uncovered and waste stabilized; or piles covered, waste unstabilized, and essentially non-permeable liner.
2. Essentially non-permeable compatible liner with no leachate collection system; or inadequate freeboard.	2. Piles uncovered, waste unstabilized, moderately permeable liner, and leachate collection system.
3. Potentially unsound run-on diversion structure; or moderately permeable compatible liner.	3. Piles uncovered, waste unstabilized, moderately permeable liner, and no leachate collection system.
4. Unsound run-on diversion structure; no liner; or incompatible liner.	4. Piles uncovered, waste unstabilized, and no liner.
B. Containers	**D. Landfill or Subsoils**
1. Containers sealed and in sound condition, adequate liner, and adequate leachate collection system.	1. Essentially non-permeable liner, liner compatible with waste, and adequate leachate collection system.
2. Containers sealed and in sound condition, no liner or moderately permeable liner.	2. Essentially non-permeable compatible liner, no leachate collection system, and landfill surface precludes ponding.
3. Containers leaking, moderately permeable liner.	3. Moderately permeable, compatible liner, and landfill surface precludes ponding.
4. Containers leaking and no liner or incompatible liner.	4. No liner or incompatible liner; moderately permeable compatible liner; landfill surface encourages ponding; no run-on control.

* Note Slope of Piles

	Name/description of nearest downslope surface water: Bonita Creek
1%	Average slope of terrain between facility and above-cited surface water body in percent.
B-1	Containment - See Surface Water Chart.
NO	Is there tidal influence?
Circle appropriate land use, describe and designate location in relation to facility. None Noted	Coastal Wetland Fresh-water Land Critical Habitat National Wildlife Refuge
Comments:	
Weather Conditions: Rainy/clear, 60-70°F	
Noticeable Odors? Air Monitoring Conducted? Yes, HNU, 70 ppm in tank, ~5 in air and boring	
Security: Fences, breached in back corners.	

CONTAINMENT VALUES FOR **SURFACE WATER** ROUTE

A. Surface Impoundment	C. Waste Piles or Surface Soils*
1. Sound diking or diversion structure, adequate freeboard, and no erosion	1. Piles are covered and surrounded by sound diversion or containment system.
2. Sound diking or diversion structure, but inadequate freeboard.	2. Piles covered, wastes unconsolidated, diversion or containment system not adequate
3. Diking not leaking, but potentially unsound.	3. Piles not covered, wastes unconsolidated, and diversion or containment system potentially unsound.
4. Diking unsound, leaking, or in danger of collapse.	4. Piles not covered, wastes unconsolidated, and no diversion or containment or diversion system leaking or in danger of collapse.
B. Containers	**D. Landfill or Subsoils**
1. Containers sealed, in sound condition, and surrounded by sound diversion or containment system.	1. Landfill slope precludes runoff, landfill surrounded by sound diversion system, or landfill has adequate cover material.
2. Containers sealed and in sound condition, but not surrounded by sound diversion or containment system.	2. Landfill not adequately covered and diversion system sound.
3. Containers leaking and diversion or containment structures potentially unsound.	3. Landfill not covered and diversion system potentially unsound.
4. Containers leaking, and no diversion or containment structures or diversion structures leaking or in danger of collapse.	4. Landfill not covered and no diversion system present, or diversion system unsound.

* Note Slope of Piles

PHOTOS

FIGURE 2
SITE PHOTOGRAPHS

Note: Photographs have been renumbered for clarity in this report. Numbers in parenthesis refer to the actual photograph number on a particular roll of film and described in JN field notes.

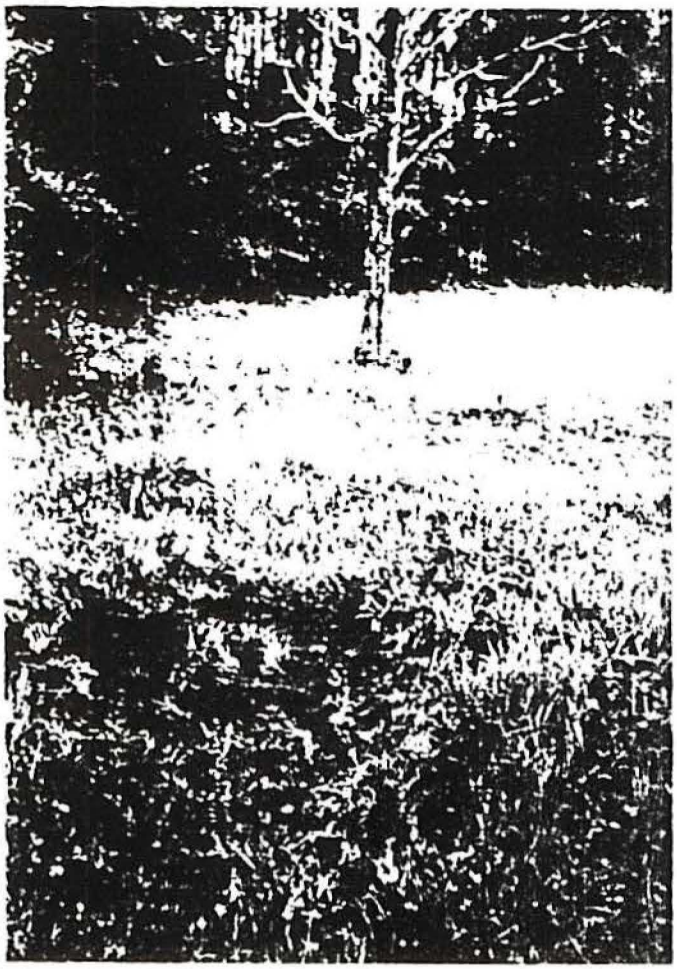


Photo 1 (2)
C.J. Martin
Southwest corner of property showing wooded hillside and location of upgradient soil boring and water sample.

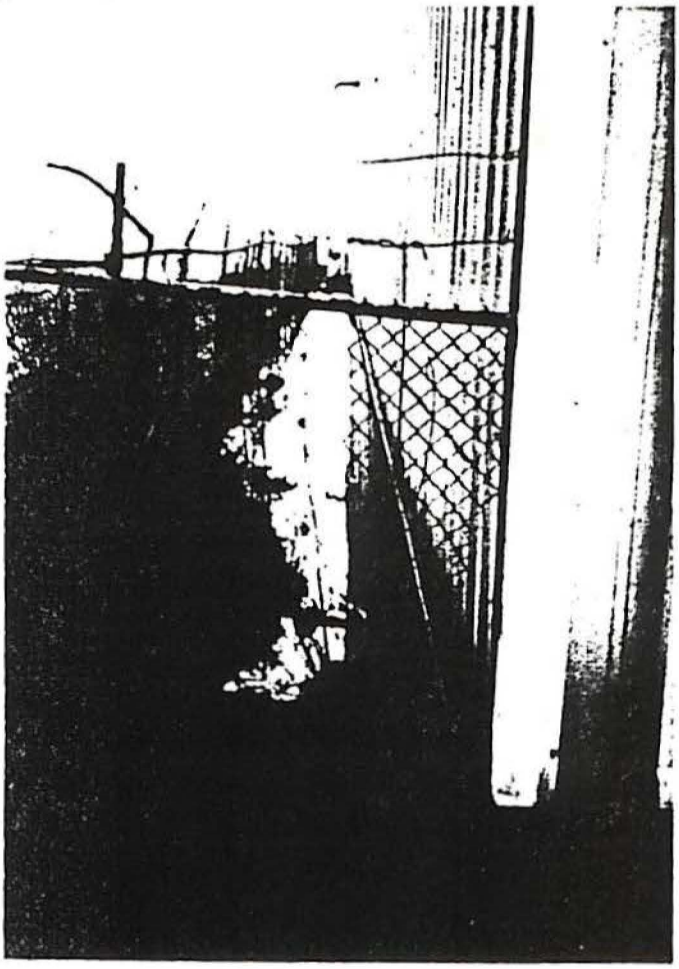


Photo 2 (8)
C.J. Martin
View down the western edge of the facility showing surface water course. Upgradient end of surface water is at photographer's feet. Surface water continues to the railroad tracks.

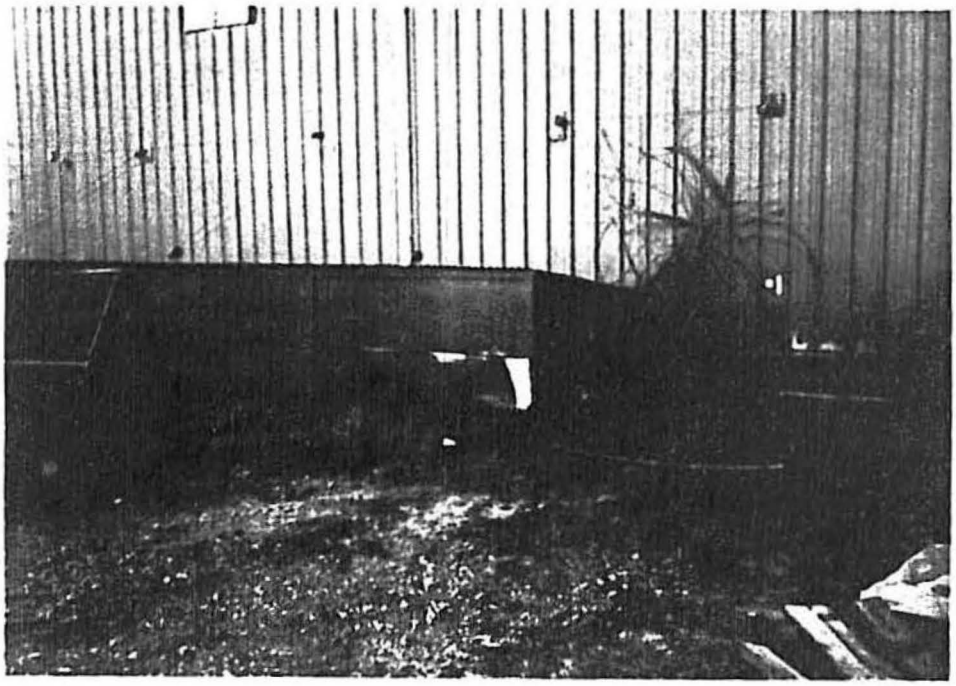


Photo 3 (5) C.J. Martin

Waste sump on the north of the facility showing wooden frame cover and hoist system. Cement sump with a 7,500 gal capacity and is emptied by a local disposal firm every ninety days for deep well injection.

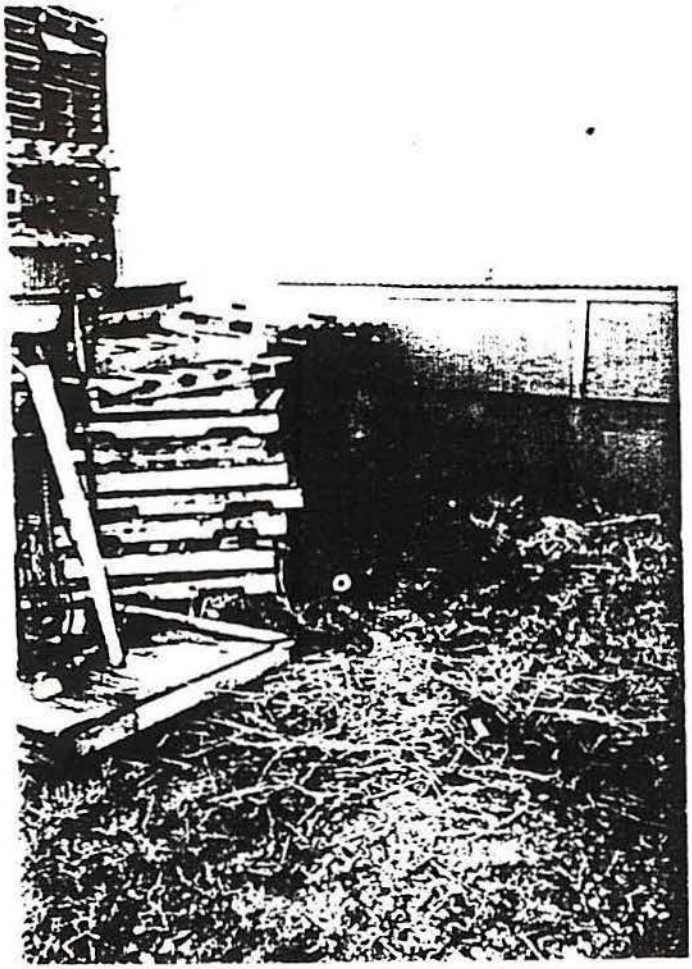


Photo 4 (1)
C.J. Martin
Location of auger hole. Ground markers show sample locations. 6' from east end and 7' from north side of sump. Downgradient side of the sump.

DATA Sum.

SECTION III
DATA SUMMARY

III. DATA SUMMARY

Analytical Data

During the resampling event of June 4, 1987, three samples were collected as discussed in Section II. The results of this sampling can be found in Attachment B-2 and are summarized in Table 2. In sample CJM-009, taken from the 7,500 gallon waste tank, hazardous waste was found with Lindane at an E.P. Toxicity leachate level of 9.0 ppm. E.P. Toxicity analysis of off-site soils was inadvertently requested.

However, a release was documented at both soil sample locations. Sample CJM-010, located off-site at the northwest corner of the facility, showed an E.P. Toxicity leachate level of Lindane at 0.029 ppm while sample CJM-011 (a soil sample taken from the drainage ditch) located off-site at the northeast corner of the facility) showed an E.P. Toxicity leachable Lindane of 0.044 ppm. The analysis conducted on samples taken June 4, 1987 were performed within the holding time for the parameters requested.

Documentation of leachable levels of Lindane in off-site soil samples indicates contaminant migration by either airborne or water borne routes or both. Increasing levels of Lindane in the downstream location indicate some transport and/or concentration. Thus, contamination further downstream would be expected.

Geologic Data

Although not required by contract, a water well records search was conducted in conjunction with the site investigation. In general, the wells within a three mile radius draw water either from the shallow alluvium or from the Carrizo Sand aquifer. The closest active well from the site is 37-27-306 which is located 2,100 feet to the south. Of the wells within a one mile radius of the site, six are municipal supply wells for the City of Nacogdoches. The closest of these municipal wells

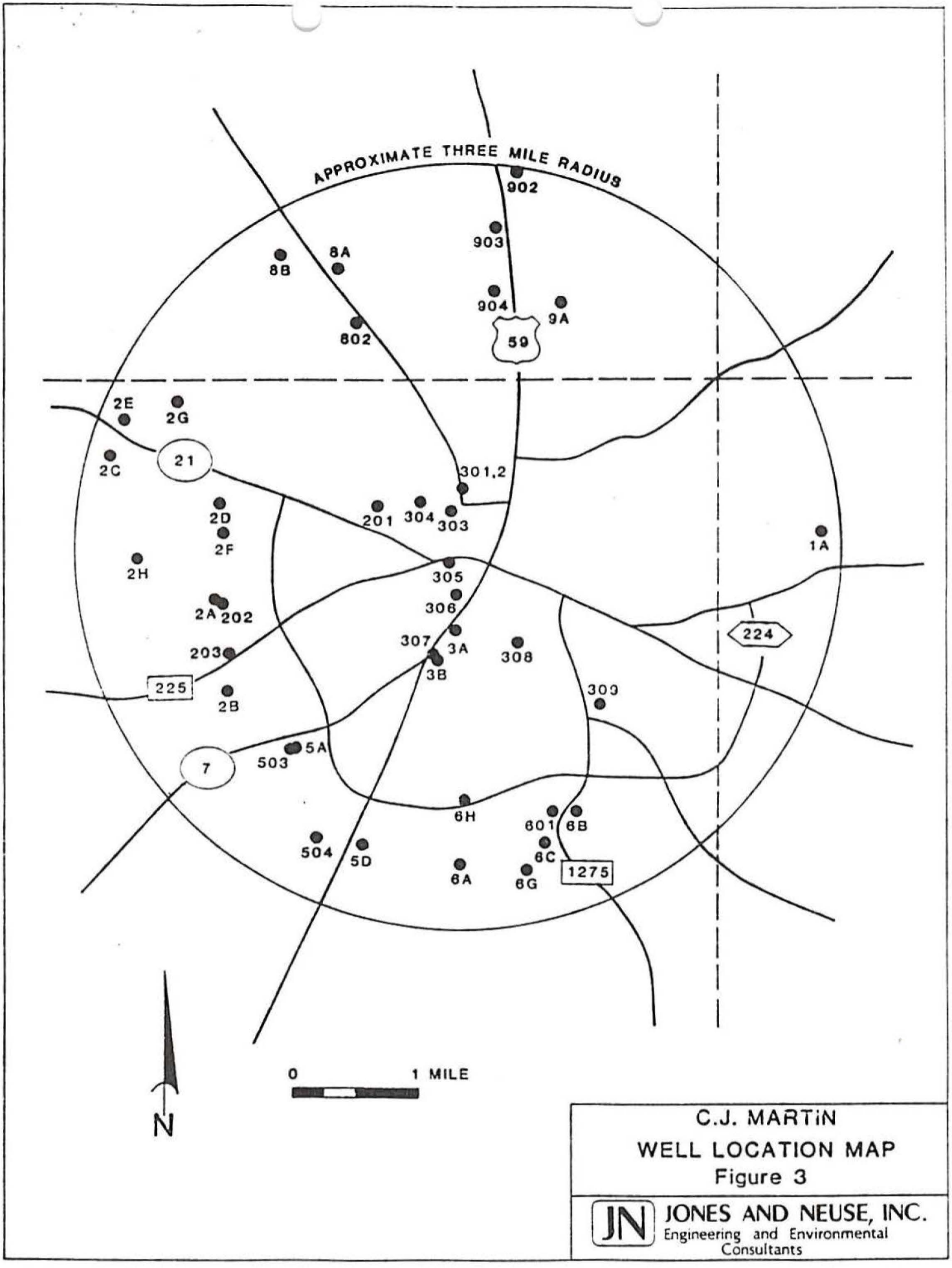
is 37-27-303 which is 1,500 feet to the north of the site. The closest well to the site is 37-27-305, 300 feet to the south. This well is abandoned.

The site is located on clayey sand deposits of Alluvium origin. These deposits range from one to ten feet thick and overlay the Weches Sand. Surface soils at the site consist of clayey sand with groundwater encountered in shallow borings at a depth of five feet below grade. The average surface gradient to Bonita Creek is 1%. Figure 3 is a map showing the locations of the water wells within three miles.

Although not detected in the March groundwater sample which exceeded the holding time, contamination of groundwater from a leak in the underground hazardous waste tank is possible. The bulk of the tank is underground and the tank is made of concrete. Therefore, the tank may leak directly into the ground undetected. Some permeability is typically associated with concrete and stress cracks in the concrete may exacerbate this permeability. Migration to the groundwater from contaminated sediments should also be expected, particularly in the alluvium.

TABLE 2
SAMPLING RESULTS

Compound	Waste Liquid CJM-009	Background Soil CJM-010	Ditch Soil CJM-011	Maximum Allowable
Lindane	9.0	0.029	0.044	0.4
Edrin	ND	ND	ND	0.02
Methoxychlor	ND	ND	ND	10.0
Toxaphene	ND	ND	ND	0.5
2,4-D	ND	ND	ND	10.0
2,4,5-TP Silvex	ND	ND	ND	10.0



C.J. MARTIN
WELL LOCATION MAP
Figure 3

JONES AND NEUSE, INC.
Engineering and Environmental Consultants

DATA
COLLECTION
GUIDELINE

ATTACHMENT A

DATA COLLECTION GUIDELINE

DATA COLLECTION GUIDELINE

JN Submittal Date March 9, 1987

TWC Approval Date _____

Site C.J. Martin

Team Leader C. Reynolds

Team Member C. Black

TWC Contacts _____

Site Contacts Billy Simms

WASTE Type Anticipated None, according to information provided

Volume N/A, active generator, disposing of waste off-site

Samples Anticipated 1, if possible

Screening Analysis Arsenic, HNU for organics

Comments _____

SURFACE WATER Availability Bonita Creek

Samples 2 sediment and 2 surface water

Comments one sample of each from upstream and downstream of plant

GROUNDWATER Availability Unknown

Samples Anticipated 1 each; upgradient and downgradient *

Screening Analysis Arsenic, HNU

Comments Use hand auger; since near river the groundwater should be near ground surface

* if possible

SURFACE SOIL Visible Stains Anticipated No

Soil Gas Sampling for pesticides

ADDENDUM TO ATTACHMENT A
DATA COLLECTION GUIDELINE
SAMPLE DEVIATION

No surface water samples were taken during the sampling event of June 4, 1987. Due to the small amount of rainfall during the month of May, no flow was occurring. Thus, sediment samples were collected. No groundwater samples were taken during the sampling event of June 4, 1987 since analysis from the March 23, 1987 sampling of groundwater (even though holding time was exceeded) indicated no parameters above detection.

E.P. Toxicity analysis of off-site soils was inadvertently requested.

LAB. DATA

ATTACHMENT B-1

LABORATORY DATA SHEETS

March 23, 1987

Sampling

SwL SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

222 Cavalcade St. • PO Box 8768 Houston, Texas 77249 • 713/692-9151

May 27, 1987

Re: State Superfund Project #117202
TWC Contract #14-70020
Analytical Reports
(SwL Lab No. 87-560)

JONES AND NEUSE, INC.
2720 Bee Caves Road
Austin, Texas 78746

Attention: Mr. Michael Dick

Dear Mike:

Enclosed please find the analytical reports for the following site:

C. J. Martin Company - Nacogdoches, Texas

We have also submitted the QA data, Chain of Custody forms, and Laboratory Request forms with the analytical report.

The QA review of the reports reveals the following:

- the holding time for extraction of the water samples was exceeded by three days. (Lab No. 560-2, 4, 5 and 6).
- the holding time for extraction of the soils (Lab No. 560-1 and 3) were exceeded by one day.
- the holding time for the extraction of the waste sample (Lab No. 560-7) was met.
- the spike and duplicate met data quality objectives.

We have enclosed our Corrective Action Report covering these matters.

Please call if you have any questions.

Sincerely,

SOUTHWESTERN LABORATORIES, INC.

Russell J. DiRaimo, P.E.
Manager
Environmental Engineering Services
QA/QC Officer

RJD:pm

SwL SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

222 Cavalcade St. • PO Box 8768, Houston, Texas 77249 • 713 692-9151

May 27, 1987

Re: Corrective Action Report
State Superfund Project #117202
TWC Contract #14-70020
SwL Laboratory No. 87-560

JONES AND NEUSE, INC.
2720 Bee Caves Road
Austin, Texas 78746

Attention: Mr. Michael Dick

Dear Mike:

Southwestern Laboratories, Inc. hereby submits our Corrective Action Report concerning the samples obtained at the C. J. Martin Company in Nacogdoches, Texas.

The following report is submitted in accordance with Section 15.3 of our Quality Assurance Project Plan, December, 1986. The JN Project Manager was notified by telephone when the situation was discovered.

The holding time for the extractions for pesticide analysis was exceeded on six of the seven samples as follows:

Lab No.	Sample I.D.	Sample Date	Extraction Due Date	Actual Extraction Date
560-1	CJM-1 soil	3/23/87	4/6/87	4/7/87
560-2	CJM-2 groundwater	3/23/87	3/30/87	4/2/87
560-3	CJM-3 soil	3/23/87	4/6/87	4/7/87
560-4	CJM-4 groundwater	3/23/87	3/30/87	4/2/87
560-5	CJM-5 surface water	3/23/87	3/30/87	4/2/87
560-6	CJM-6 surface water	3/23/87	3/30/87	4/2/87
560-7	CJM-7 industrial waste	3/23/87	4/6/87	4/2/87

Sample 560-7 met the holding time for the extraction. All samples were then analyzed within the maximum holding time after extraction (40 days).

Where did the incident occur?

Southwestern Laboratories
222 Cavalcade
Houston, Texas 77009
(713) 692-9151
Environmental Engineering Services Division

When did the incident occur?

April 2 and 7, 1987, as outlined above

When was it corrected?

Measures were taken to ensure holding times would not be exceeded immediately after this incident.

Who discovered the incident?

Mr. Chris Barry

Who verified the incident?

Mr. Russell J. DiRaimo

Who corrected the problem?

Mr. Russell J. DiRaimo

What was the name of the test?

Total Pesticides (EP Toxicity list and/or the Priority Pollutant list).

What was the disposition of the test or control and/or instrument?

The incident did not involve an out of control situation with the instrumentation involved in the analysis. The samples were

analyzed in accordance with the EPA procedures after discovering the incident.

What was the nature of the corrective action?

A special, separate JN/TWC project sample log board was developed with the critical dates listed.

Why did the incident happen?

Due to a scheduling oversight.

SwL believes the sample data is acceptable for use in evaluating this site.

This completes this corrective action report. Please call if you have any questions.

Sincerely,

SOUTHWESTERN LABORATORIES, INC.

Russell J. DiRaimo, P.E.
Manager
Environmental Engineering Services
QA/QC Officer

RJD:pm

SwL SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

222 Cavalcade St • PO Box 8768, Houston, Texas 77249 • 713/692-9151

File No. 2-4724-03

Report No. 87-560

Report Date 5/11/87

Client: Jones & Neuse, Inc.
2720 Bee Caves Road
Austin, Texas 78746

Project: Jones & Neuse SSF Project #117202
TWC Contract #14-70020

Facility: CJ Martin Company
Nacogdoches, Texas

Date Sampled 3/23/87 Sampled by C. Reynolds, C. Black, C. Smith

Sample Type soil, water, waste Transported by Trailways

P.O. # Date Received 3/25/87

Lab No.	Sample Identification	Analysis
560-1	CJM-1 soil	Total Pesticides
560-2	CJM-2 groundwater	Total Pesticides
560-3	CJM-3 soil	Total Pesticides
560-4	CJM-4 groundwater	Total Pesticides
560-5	CJM-5 surface water	Total Pesticides
560-6	CJM-6 surface water	Total Pesticides
560-7	CJM-7 industrial waste	Total Pesticides

Technician:

Copies:

pm

Reviewed by: Russell J. DiRaimo, P.E., QA
Environmental Engineering Serv.

SOUTHWESTERN LABORATORIES
Chris Barry, Chemist
Environmental Engineering Servic

Client: Jones & [illegible]se, Inc.

File [illegible].: 2-4724-03

Sample I.D. CJM-1 soil

Report No.: 87-560-1

Report Date: 5/11/87

PESTICIDE ANALYSIS DATA SHEET

Matrix: soil

Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: 70.64

Extraction: (SepF/Sonic) _____

Date Sampled: 3/23/87

Date Received: 3/25/87

Date Extracted: 4/7/87

Date Analyzed: 5/4/87

Compound	Concentration Units: (µg/L or µg/Kg) ug/Kg	
Lindane	ND	<35
Endrin	ND	<70
Methoxychlor	ND	<700
Toxaphene	ND	<3000

SOUTHWESTERN LABORATORIES

Client: Jones & [illegible]se, Inc.

File No.: 2-4724-03

Sample I.D. CJM-2 groundwater

Report No.: 87-560-2

Report Date: 5/11/87

PESTICIDE ANALYSIS DATA SHEET

Matrix: water

Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: --

Extraction: (SepF/Sonic) _____

Date Sampled: 3/23/87

Date Received: 3/25/87

Date Extracted: 4/2/87

Date Analyzed: 5/1/87

Compound	Concentration Units: (µg/L or µg/Kg) ug/l	
A-BHC	ND	<0.02
B-BHC	ND	<0.04
D-BHC	ND	<0.04
G-BHC	ND	<0.02
Aldrin	ND	<0.04
Chlordane	ND	<1.0
4,4'-DDD	ND	<0.10
4,4'-DDE	ND	<0.04
4,4'-DDT	ND	<0.10
Dieldrin	ND	<0.04
Endosulfan I	ND	<0.04
Endosulfan II	ND	<0.10
Endosulfan Sulfate	ND	<0.10
Endrin	ND	<0.04
Endrin Aldehyde	ND	<0.10
Heptachlor	ND	<0.04
Heptachlor Epoxide	ND	<0.04
Toxaphene	ND	<5.0
Methoxychlor	ND	<0.40

Client: Jones & [illegible]se, Inc.

Fil[illegible]o.: 2-4724-03

Sample I.D. CJM-3 soil

Report No.: 87-560-3

Report Date: 5/11/87

PESTICIDE ANALYSIS DATA SHEET

Matrix: soil

Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: 64.64

Extraction: (SepF/Sonic)

Date Sampled: 3/23/87

Date Received: 3/25/87

Date Extracted: 4/7/87

Date Analyzed: 5/4/87

Compound	Concentration Units: (µg/L or µg/Kg) µg/Kg	
Lindane	ND	<35
Endrin	ND	<70
Methoxychlor	ND	<700
Toxaphene	ND	<3000

[illegible]
[illegible] 1987
[illegible] 200

SOUTHWESTERN LABORATORIES

Client: Jones & [illegible]se, Inc. File No.: 2-4724-03

Sample I.D. CJM-4 groundwater Report No.: 87-560-4

Report Date: 5/11/87

PESTICIDE ANALYSIS DATA SHEET

Matrix: water Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: -- Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 3/23/87 Date Received: 3/25/87

Date Extracted: 4/2/87 Date Analyzed: 5/1/87

Compound	Concentration Units: (µg/L or µg/Kg) ug/l	
A-BHC	ND	<0.02
B-BHC	ND	<0.04
D-BHC	ND	<0.04
G-BHC (Lindane)	ND	<0.02
Aldrin	ND	<0.04
Chlordane	ND	<1.0
4,4'-DDD	ND	<0.10
4,4'-DDE	ND	<0.04
4,4'-DDT	ND	<0.10
Dieldrin	ND	<0.04
Endosulfan I	ND	<0.04
Endosulfan II	ND	<0.10
Endosulfan Sulfate	ND	<0.10
Endrin	ND	<0.04
Endrin Aldehyde	ND	<0.10
Heptachlor	ND	<0.04
Heptachlor Epoxide	ND	<0.04
Toxaphene	ND	<5.0
Methoxychlor	ND	<0.40

SOUTHWESTERN LABORATORIES

Client: Jones & [illegible]se, Inc.

Sample I.D. CJM-5 surface water

File No.: 2-4724-03

Report No.: 87-560-5

Report Date: 5/11/87

PESTICIDE ANALYSIS DATA SHEET

Matrix: water

Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: --

Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 3/23/87

Date Received: 3/25/87

Date Extracted: 4/2/87

Date Analyzed: 5/4/87

Compound	Concentration Units: (µg/L or µg/Kg) µg/l
Lindane	0.40
Endrin	ND <0.20
Methoxychlor	ND <2.0
Toxaphene	ND <25.0

SOUTHWESTERN LABORATORIES

Client: Jones & Reuse, Inc. File No.: 2-4724-03

Sample I.D. CJM-5 surface water Report No.: 87-560-5Dup.

Report Date: 5/11/87

QA - Duplicate Results

PESTICIDE ANALYSIS DATA SHEET

Matrix: water Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: -- Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 3/23/87 Date Received: 3/25/87

Date Extracted: 4/7/87 Date Analyzed: 5/4/87

Compound	Concentration Units: (µg/L or µg/Kg) µg/l
Lindane	0.40
Endrin	ND <0.20
Methoxychlor	ND <2.0
Toxaphene	ND <25.0

Client: Jones & [illegible]se, Inc.

Sample I.D. CJM-6 surface water

File [illegible].: 2-4724-03

Report No.: 87-560-6

Report Date: 5/11/87

PESTICIDE ANALYSIS DATA SHEET

Matrix: water

Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: --

Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 3/23/87

Date Received: 3/25/87

Date Extracted: 4/2/87

Date Analyzed: 5/1/87

Compound	Concentration Units: (µg/L or µg/Kg) ug/l
Lindane	5.15
Endrin	ND <0.2
Methoxychlor	ND <0.4
Toxaphene	ND <5.0

SOUTHWESTERN LABORATORIES

Client: Jones & [illegible]use, Inc.

File No.: 2-4724-03

Sample I.D. CJM-7

Report No.: 87-560-7

Report Date: 5/11/87

PESTICIDE ANALYSIS DATA SHEET

Matrix: waste liquid

Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: --

Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 3/23/87

Date Received: 3/25/87

Date Extracted: 4/2/87

Date Analyzed: 5/4/87

Compound	Concentration Units: (µg/L or µg/Kg) µg/l	
A-BHC	ND	<200
B-BHC	ND	<200
D-BHC	ND	<200
* G-BHC (Lindane)		61,100
Aldrin	ND	<400
Chlordane	ND	<5000
4,4'-DDD	ND	<1000
4,4'-DDE	ND	<400
4,4'-DDT	ND	<1000
Dieldrin	ND	<400
Endosulfan I	ND	<400
Endosulfan II	ND	<1000
Endosulfan Sulfate	ND	<1000
Endrin	ND	<400
Endrin Aldehyde	ND	<1000
Heptachlor	ND	<400
Heptachlor Epoxide	ND	<400
Toxaphene	ND	<20,000
Methoxychlor	ND	<4,000

* Lindane at high enough level to be confirmed by GC/MS.

The pesticide malathion also present in sample as identified by GC/MS Library Search.

[illegible]LMED

[illegible] 1987

[illegible]R 709

Client: Jones & Neu[illegible] SWL Lab No.: 560-6

Sample I.D.: CJM-5 Surface water Date: 5/1/87

Sample Matrix: water Analyst: Chris Barry

Spiking Solution: EPA QC WP 1181-2 Parameter: Chlorinated Hydrocarbons Pest. II

Compound	Amt. Added or True Value	Sample Conc.	MS Conc (ug/L)	MS % Recovery	QA Limit (ug/L)
Alpha - BHC	0.306 (ug/L)	ND	0.248	81.0	0.153 -
Beta - BHC	0.803	ND	0.984	122.5	0.401 -
Heptachlor Epoxide	0.504	ND	0.470	93.3	0.252 -
Endosulfan I	0.664	ND	0.826	124.4	0.332 -
Endosulfan II	0.949	ND	4.40	464	0.474 -
Endrin Aldehyde	3.51	ND	2.54	72.4	1.76 -

SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

222 Cavalcade St • PO Box 8768 Houston Texas 77249 • 713/692-9151

CHAIN OF CUSTODY RECORD

Sample Location

[ENT]: ~~C.J.~~ Martin Jones [illegible]

[ILITY LOC]ATION: Martin (SSF)

Sample Collector

C. Reynolds
C. Black
C. Smith

[FIE]LD INFORMATION: [illegible]

estimated time

[Sam]ple Location	Sample Type	Date	Time	Sampler	Analysis Requested
JM-1	soil	23 [illegible]	2:30 p	C Reynolds	Total [illegible]
JM-2	r. water		2:45 pm		Total Pesticides
JM-3	Soil		4:30 p		Total Pesticides
JM-4	groundwater		4:45 p		Total Pesticides
JM-5	surface water		4:00 pm		Total Pesticides
JM-6	surface water		4:15 pm		Total Pesticides
JM-7	ind. waste		5 pm		EP Tox Pesticid[es]

CHAIN OF POSSESSION

Relinquished by:	Received by:	Date	Time
C. Reynolds	[illegible]	24 [illegible]	11:10
	Clara Reilly	3/25/87	3 [illegible]

POOR QUALITY ORIGINAL

SUBMITTER: Jones & Neuse

DATE: 23 Mar 87

PHONE: 327-9540

REQUESTOR: C. Reynolds

REQUESTED DATE OF COMPLETION:

PROJECT #: SSF-CJ Martin

SAMPLE TYPE:

(industrial waste, groundwater, soil, solid waste, etc.)

REQUIRED ANALYSES:

CJM-1 (Soil) - [redacted] Total Pesticides (Lindane, Methoxychlor)

NOTES:

FIGURE 6-3

LABORATORY ANALYSIS REQUEST

SUBMITTER: Jones & Neuse

DATE: 23 Mar 87

PHONE: 512/327-9540

REQUESTOR: C. Reynolds

REQUESTED DATE OF COMPLETION:

PROJECT #: SSF-U C.J. Martin

SAMPLE TYPE: Groundwater

(industrial waste, groundwater, soil, solid waste, etc.)

REQUIRED ANALYSES:

C.H-2 (groundwater) - Total Pesticides (Lindane, Methoxychlor)

NOTES:

FIGURE 6-3

LABORATORY ANALYSIS REQUEST

SUBMITTER: _____

_____ DATE: _____

_____ PHONE: _____

REQUESTOR: _____ REQUESTED DATE

PROJECT #: _____ OF COMPLETION: _____

SAMPLE TYPE: - CSH -

(industrial waste, groundwater, soil, solid waste, etc.)

REQUIRED ANALYSES: Total Pestici

NOTES:

FIGURE 6-3

LABORATORY ANALYSIS REQUEST

SUBMITTER: _____

_____ DATE: _____

_____ PHONE: _____

REQUESTOR: _____ REQUESTED DATE

PROJECT #: _____ OF COMPLETION: _____

SAMPLE TYPE: _____

(industrial waste, groundwater, soil, solid waste, etc.)

REQUIRED ANALYSES:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

NOTES:

_____

_____

_____

_____

FIGURE 6-3

LABORATORY ANALYSIS REQUEST

SUBMITTER: Jones & Nelse

DATE: 3-23-87

PHONE: 327-9840

REQUESTOR: C Reynolds

REQUESTED DATE OF COMPLETION:

PROJECT #: SSF/CJMackN

SAMPLE TYPE: surface water

(industrial waste, groundwater, soil, solid waste, etc.)

REQUIRED ANALYSES:

CJM-5

Total Pesticides

NOTES:

FIGURE 6-3

LABORATORY ANALYSIS REQUEST

SUBMITTER: ITVC-Jones & Neuse

DATE: _____

PHONE: _____

REQUESTOR: C. Rogers

REQUESTED DATE OF COMPLETION: _____

PROJECT #: _____

SAMPLE TYPE: _____

(industrial waste, groundwater, soil, solid waste, etc.)

REQUIRED ANALYSES:

NOTES:

FIGURE 6-3

LABORATORY ANALYSIS REQUEST

SUBMITTER: Jones and Nelson

DATE: 23 Mar 87

PHONE: 327-9846

REQUESTOR: C. Reynolds

REQUESTED DATE OF COMPLETION:

PROJECT #:

SAMPLE TYPE: groundwater
(Industrial waste, groundwater, soil, solid waste, etc.)

REQUIRED ANALYSES:

CLP-4

Total Pesticides

Lindane

Methoxychlor

NOTES:

FIGURE 6-3
LABORATORY ANALYSIS REQUEST

ATTACH. B-2

LAB. DATA

ATTACHMENT B-2

LABORATORY DATA SHEETS

June 4, 1987

Sampling

SwL **SOUTHWESTERN LABORATORIES**

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

222 Cavalcade St. • PO. Box 8768, Houston, Texas 77249 • 713/692-9151

July 31, 1987

Re: State Superfund Project #117202
TWC Contract #14-70020
Analytical Reports
(SwL Lab No. 87-1144)

JONES AND NEUSE, INC.
2720 Bee Caves Road
Austin, Texas 78746

Attention: Mr. Michael Dick

Dear Mike:

Enclosed please find the analytical report for the following site:

C. J. Martin - Nacogdoches, Texas

We have also submitted the QA data and Chain of Custody forms with the analytical report.

The QA review of the reports reveals the following:

- all data quality objectives were met.

Please call if you have any questions.

Sincerely,

SOUTHWESTERN LABORATORIES, INC.

Russell J. DiRaimo, P.E.
Manager
Environmental Engineering Services
QA/QC Officer

RJD:pm

SWL SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

222 Cavalcade St. • PO Box 8768, Houston, Texas 77249 • 713/692-9151

File No. 2-4724-03

Report No. 87-1144

Report Date 07-17-87

ient: Jones & Neuse, Inc.
2720 Bee Caves Road
Austin, Texas 78746

oject: Jones & Neuse SSF Project #117202
TWC Contract #14-70020

Facility: C.J. Martin
Nacogdoches, Texas

Date Sampled June 04, 1987 Sampled by R. Sherrill

Sample Type Waste, soil Transported by Trailways

P.O. # Date Received June 10, 1987

Lab No.		Sample Identification	Analysis
1144-1	CJM-9	Waste Sample	EPTOX Pesticides and Herbs
1144-2	CJM-10	Background soil	EPTOX Pesticides and Herbs
1144-3	CJM-11	Down gradient Ditch Soil	EPTOX Pesticides and Herbs

chnician:

pies:

dlw

SOUTHWESTERN LABORATORIES

Reviewed by: Russell J. DiRaimo, P.E., QA / Chris Barry, Chemist

Environmental Engineering Serv. Environmental Engineering Servic

SOUTHWESTERN LABORATORIES

Client: Jones & Neuse, Inc.

Sample I.D. CJM-9 Waste

File No.: 2-4724-03

Report No.: 1144-1

Report Date: 07-17-87

EP TOXICITY PESTICIDE ANALYSIS DATA SHEET

Matrix: Waste Liquid

Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: ---

Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 06-04-87

Date Received: 06-10-87

Date Extracted: 06-26-87

Date Analyzed: 07-01-87

EPTOX Extraction Date 06-19-87

Contaminant	Measured Concentration, mg/l	Maximum Allowable Concentration, mg/l
Lindane	9.0	0.4
Endrin	ND<0.005	0.02
Methoxychlor	ND<0.025	10.
Toxaphene	ND<0.25	0.5

Client: Jones & [illegible]se, Inc. File [illegible].: 2-4724-03

Sample I.D. CJM-11 Down gradient Ditch Report No.: 1144-3

Report Date: 07-17-87

EP TOXICITY PESTICIDE ANALYSIS DATA SHEET

Matrix: Soil Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: --- Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 06-04-87 Date Received: 06-10-87

Date Extracted: 06-26-87 Date Analyzed: 07-01-87

EPTOX Extraction Date 06-19-87

Contaminant	Measured Concentration, mg/l	Maximum Allowable Concentration, mg/l
Lindane	0.044	0.4
Endrin	ND<0.0005	0.02
Methoxychlor	ND<0.0025	10.
Toxaphene	ND<0.025	0.5

Client: Jones & [illegible]se, Inc.

Sample I.D. CJM-10 Background Soil

Fi[illegible]o.: 2-4724-03

Report No.: 1144-2

Report Date: 07-17-87

EP TOXICITY PESTICIDE ANALYSIS DATA SHEET

Matrix: Soil

Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: ---

Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 06-04-87

Date Received: 06-10-87

Date Extracted: 06-26-87

Date Analyzed: 07-01-87

EPTOX Extraction Date 06-19-87

Contaminant	Measured Concentration, mg/l	Maximum Allowable Concentration, mg/l
Lindane	0.029	0.4
Endrin	ND<0.0005	0.02
Methoxychlor	ND<0.0025	10.
Toxaphene	ND<0.025	0.5

Client: Jones & [illegible]se, Inc.

File No.: 2-4724-03

Sample I.D. CJM-10 Background Soil

Report No.: 1144-2 Duplicate

Report Date: 07-17-87

QA - Duplicate Results

EP TOXICITY PESTICIDE ANALYSIS DATA SHEET

Matrix: Soil

Method: Soil/Waste - EPA SW846; 3550/8080
Water - EPA 608

% Solids: ---

Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 06-04-87

Date Received: 06-10-87

Date Extracted: 06-26-87

Date Analyzed: 07-01-87

EPTOX Extraction Date 06-19-87

Contaminant	Measured Concentration, mg/l	Maximum Allowable Concentration, mg/l
Lindane	0.022	0.4
Endrin	ND<0.0005	0.02
Methoxychlor	ND<0.0025	10.
Toxaphene	ND<0.025	0.5

MATRIX SPIKE RECOVERY

Client: Jones Y Nouse SwL Lab No.: 7144-3 (EP Tox) spike

Sample I.D.: Downgradient Ditch Date: 7/1/87

Sample Matrix: soil (EP Tox) Analyst: Chris Barry

Spiking Solution: SwL SDWA/RCRA mix Parameter: Pesticides

Compound	Amt. Added or True Value (ug/L)	Sample Conc.	MS Conc.	MS % Recovery	(% Rec QA Limit
Lindane	0.10	29.0	*	*	44.2-17
Endrin	0.50	ND	0.43	86.0	51.5-12
Methoxychlor	1.0	ND	0.83	83.0	54.1-1

* Lindane present in sample 290 times spike level.
Sample spike for Lindane insufficient to calculate % recovery.

SOUTHWESTERN LABORATORIES

Client: Jones & [illegible]se, Inc. File No.: 2-4724-03

Sample I.D. CJM-9 Waste Report No.: 1144-1

Report Date: 07-17-87

EP TOXICITY HERBICIDE ANALYSIS DATA SHEET

Matrix: Waste Liquid Method: Soil/Waste - EPA SW846; 8150
Water - EPA 8150

% Solids: --- Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 06-04-87 Date Received: 06-10-87

Date Extracted: 06-26-87 Date Analyzed: 07-01-87

EPTOX Extraction Date: 06-19-87

Compound	Measured Concentration, mg/L	Maximum Allowable Concentration, mg/L
2,4-D	ND<0.05	10.0
2,4,5-TP Silvex	ND<0.01	1.0

SOUTHWESTERN LABORATORIES

Client: Jones & [illegible]se, Inc.

Sample I.D. CJM-10 Background

File No.: 2-4724-03

Report No.: 1144-2

Report Date: 07-17-87

EP TOXICITY HERBICIDE ANALYSIS DATA SHEET

Matrix: Soil

Method: Soil/Waste - EPA SW846; 8150
Water - EPA 8150

% Solids: ---

Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 06-04-87

Date Received: 06-10-87

Date Extracted: 06-26-87

Date Analyzed: 07-01-87

EPTOX Extraction Date: 06-19-87

Compound	Measured Concentration, mg/L	Maximum Allowable Concentration, mg/L
2,4-D	ND<0.005	10.0
2,4,5-TP Silvex	ND<0.001	1.0

SOUTHWESTERN LABORATORIES

Client: Jones & [illegible]se, Inc. File No.: 2-4724-03

Sample I.D. CJM-11 Downgradient Ditch Report No.: 1144-3

Report Date: 07-17-87

EP TOXICITY HERBICIDE ANALYSIS DATA SHEET

Matrix: Soil Method: Soil/Waste - EPA SW846; 8150
Water - EPA 8150

% Solids: --- Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 06-04-87 Date Received: 06-10-87

Date Extracted: 06-26-87 Date Analyzed: 07-01-87

EPTOX Extraction Date: 06-19-87

Compound	Measured Concentration, mg/L	Maximum Allowable Concentration, mg/L
2,4-D	ND<0.005	10.0
2,4,5-TP Silvex	ND<0.001	1.0

Client: Jones & [illegible]ise, Inc. File No.: 2-4724-03

Sample I.D. CJM-10 Downgradient Ditch Report No.: 1144-2 Duplicate

Report Date: 07-17-87

QA - Duplicate Results

EP TOXICITY HERBICIDE ANALYSIS DATA SHEET

Matrix: Soil Method: Soil/Waste - EPA SW846; 8150
Water - EPA 8150

% Solids: --- Extraction: (SepF/Sonic) Sep Funnel

Date Sampled: 06-04-87 Date Received: 06-10-87

Date Extracted: 06-26-87 Date Analyzed: 07-01-87

EPTOX Extraction Date: 06-19-87

Compound	Measured Concentration, mg/L	Maximum Allowable Concentration, mg/L
2,4-D	ND<0.005	10.0
2,4,5-TP Silvex	ND<0.001	1.0

Client: Jones & Neuse SwL Lab No.: 1144-3

Sample I.D.: CJM-11 Downgradient Date: /31/87

Sample Matrix: Soil Analyst: Chris Barry

Spiking Solution: SwL Herbicide Spike Mix Parameter: SDWA/RCRA Herbicides

Compound	Amt. Added or True Value	Sample Conc.	MS Conc.	MS % Recovery	QA Limits
2,4-D	20 ug/L	ND	6.74	33.7	% reco 16.4-13
2,4,5-TP Silvex	20 ug/L	ND	15.25	76.25	39.9-14

CHAIN OF CUSTODY RECORD

Sample Location

Sample Collector

CLIENT: Texas Water Commission

FACILITY LOCATION: C. J. Martin
606 W. Main Str.
Nacogdoches, TX

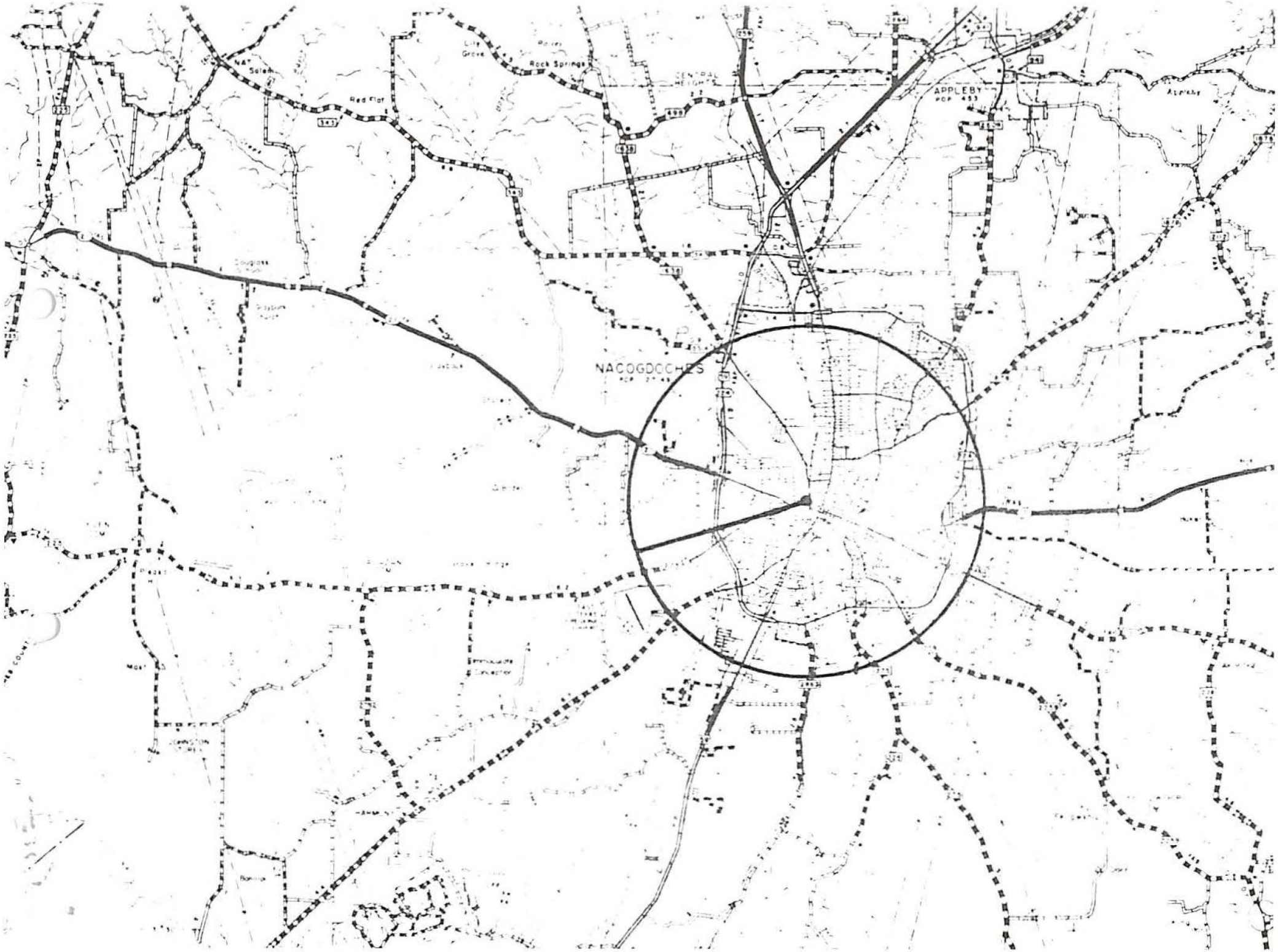
FIELD INFORMATION: Soil Samples replacing previous surface water samples since no surface water was available

Sample Location	Sample Type	Date	Time	Sampler	Analysis Requested
Waste Tank	Waste	6/4/87	1310 hrs	RS	EP Tox Pesticid
Background	Soil	6/4/87	1335 hrs	RS	EP Tox Pesticid
Downgradient Ditch	Soil	6/4/87	1345 hrs	RS	EP Tox Pesticid
					✓ also herbicide
					A/P Charlie Faulk 6/12/87

CHAIN OF POSSESSION

Relinquished by:	Received by:	Date	Time
		5-7-87	
		6-10-87	2:00 pm

ATTACHMENT C
COUNTY MAP


APPLEBY
POP 483
NACOGDOCHES

ATTACHMENT D

USGS MAP

This Document Contained Material Which Was Not Filmed/Scanned

Title CJ Martin Company, TWC Site Inspection Report, attachment D: USGS site Location Map, Oversized MAP

Please Refer to the File in Superfund Records Center